

Department of Labor

August 28, 2008

Authorization of OSHA CPL 03-00-003 National Emphasis Program on Amputations

Indiana OSHA is today giving notice of its intent to participate in the National Enforcement Program (NEP) for Amputations.

This reauthorization shall expire August 28, 2010.

The text of the program follows this document.

Jeffry S. Carter

Deputy Commissioner of Labor

Indiana OSHA



U.S. DEPARTMENT OF LABOR

Occupational Safety and Health Administration

DIRECTIVE NUMBER: CPL 03-00-003

EFFECTIVE DATE: October 27, 2006

SUBJECT:

National Emphasis Program on Amputations

ABSTRACT

Purpose:

This Instruction describes policies and procedures for implementing a National Emphasis Program (NEP) to identify and to reduce workplace machinery and equipment hazards which are causing or likely to cause

amputations.

Scope:

OSHA-wide.

References:

OSHA Instruction CPL 04-00-001, (CPL 2-0.102A) Procedures for

Approval of Local Emphasis Programs, November 11, 1999.

Cancellations:

OSHA Instruction CPL 03-00-002 (CPL 2-1.35), National Emphasis

Program on Amputations, March 26, 2002.

State Impact:

State adoption required in part, See paragraph V.

Action Offices:

National, Regional, and Area Offices

Originating Office: Directorate of Enforcement Programs

Contact:

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(202-693-1850)

By and Under the Authority of

Edwin G. Foulke, Jr. **Assistant Secretary**

Executive Summary

On February 28, 1997, Instruction CPL 2-1.24 established and implemented a *National Emphasis Program on Mechanical Power Presses* as part of the Agency's strategic goal of reducing amputations in general industry workplaces. Following that Program, on March 26, 2002, OSHA implemented OSHA Instruction CPL 03-00-002 (previously known as CPL 2-1.35), *National Emphasis Program on Amputations*, in order to address additional machinery associated with amputation hazards thereby reducing injuries.

In order to build on the success of the previous programs, OSHA through this Instruction, *National Emphasis Program on Amputations*, is administratively revising OSHA Instruction CPL 03-00-002, *National Emphasis Program on Amputations* to more effectively reduce amputations and fatalities in selected industries. To qualify, the selected industry would need to meet two criteria, High IMIS violations coupled with High BLS Amputation Numbers, or High IMIS violations coupled with High BLS Amputation Rates. Through this approach, the Agency will use its resources to more effectively reduce amputation injuries and accomplish its strategic goals.

Significant Changes

This Instruction expands on the existing National Emphasis Program on Amputations. Major changes include:

- The revised directive focuses on identifying industries and establishments associated with amputations rather than on equipment associated with amputations.
- Appendix D of the revised directive lists some of the typical machinery and equipment associated with amputations.
- The revised directive incorporates a comparison chart for the Standard Industrial Classification (SIC) codes and the North American Industry Classification System (NAICS) codes in Appendix B.
- The revised targeting methodology is based on a combination of more current data from IMIS and BLS sources as explained in Appendix C.
- The revised targeting methodology includes two additional standards that are generally recognized as being related to amputation hazards. The additional standards are §1910.147, The Control of Hazardous Energy (Lockout/Tagout) and §1910.219, Mechanical Power-transmission Apparatus.

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- I. <u>Purpose.</u> This Instruction describes policies and procedures for implementing a National Emphasis Program (NEP) to identify and to reduce workplace machine and equipment hazards which are causing or likely to cause amputations.
- II. <u>Scope.</u> This Instruction applies OSHA-wide.

III. References.

- A. OSHA Instruction CPL 04-00-001, November 10, 1999, Procedures for Approval of Local Emphasis Programs and Experimental Programs.
- B. OSHA Standards 29 CFR 1910, Subpart J, General Environmental Controls, §1910.147, The Control of Hazardous Energy (Lockout/Tagout).
- C. OSHA Standards 29 CFR 1910, Subpart O, Machinery and Machine Guarding.
- D. OSHA Standards 29 CFR 1910, Subpart P, Hand and Portable Powered Tools & Other Hand-Held Equipment.
- E. OSHA's Safety and Health Management Guidelines, 54 FR 3904, January 26, 1989.
- F. OSHA Instruction CPL 02-00-025, January 4, 1995, Scheduling System for Programmed Inspections.
- G. OSHA Instruction STD 01-05-019, September 11, 1990, 29 CFR 1910.147, The Control of Hazardous Energy (Lockout/Tagout) – Inspection Procedures and Interpretive Guidance.
- H. Executive Order 12196, Section 1-201.
- I. OSHA Standards 29 CFR 1960.16, Compliance with OSHA Standards.
- J. OSHA Instruction CSP 01-00-002, March 21, 2001, State Plan Policies and Procedures Manual (SPM).
- K. OSHA Instruction CPL 02-00-103, September 26, 1994, Field Inspection Reference Manual (FIRM).
- L. OSHA Publication 3157, A Guide for Protecting Workers from Woodworking Hazards.
- M. OSHA Safety and Health Topics Web Page, Machine Guarding, http://www.osha.gov/SLTC/machineguarding/index.html

- N. OSHA Safety and Health Topics Web Page, Control of Hazardous Energy, http://www.osha.gov/SLTC/controlhazardousenergy/index.html
- O. OSHA Instruction CPL 02-00-051, Enforcement Exemptions and Limitations under the Appropriations Act.
- P. Bureau of Labor Statistics (BLS), Table R1. Number of Nonfatal Occupational Injuries and Illnesses Involving Days Away From Work by Industry and Selected Natures of Injury or Illness, 1999, 2000, 2001, and 2002.
- Q. Bureau of Labor Statistics (BLS), Table R5. Incidence Rates for Nonfatal Occupational Injuries and Illnesses by Involving Days Away From Work per 10,000 Full-Time Workers by Industry and Selected Natures of Injury or Illness, 1999, 2000, 2001, and 2002.
- R. Bureau of Labor Statistics (BLS), Table R25. Number of Nonfatal Occupational Injuries and Illnesses Involving Days Away From Work by Source of Injury or Illness and Selected Natures of Injury or Illness, 1999, 2000, 2001, and 2002.
- S. Integrated Management Information System (IMIS), data for §1910.147, §1910.212, §1910.213, §1910.217, and §1910.219 limited to fiscal years 1999, 2000, 2001, 2002, 2003, 2004 and 2005.
- T. Executive Office of the President, Standard Industrial Classification Manual, 1987.
- U. Executive Office of the President, North American Industry Classification System, United States, 1997.
- V. Executive Office of the President, North American Industry Classification System, United States, 2002.
- W. Occupational Safety and Health Act of 1970 [29 U.S.C. §654(a)(1 2)].
- IV. <u>Cancellations.</u> OSHA Instruction CPL 03-00-002, National Emphasis Program on Amputations, March 26, 2002.
- V. Federal Program Change. This instruction describes a Federal Program change. Because of the significant nature of the policy changes contained in this instruction, notice of intent regarding State adoption of an Amputations emphasis program in response to this Instruction is required. The notice should indicate whether the State's program is/will be identical to or different from the Federal.
 If a State adopts an emphasis program on Amputations which differs from the Federal, States may either post their policy on their State Plan's website and provide a link to

OSHA or submit their policy to OSHA in electronic format, for posting on OSHA's website. An explanation of the differences must also be posted/submitted for posting. Where the State adopts an identical emphasis program on Amputations, a statement to that effect with appropriate State references may be sufficient for posting.

State Emphasis Programs: In general, States are expected to keep their Regional Administrators informed of all State emphasis programs, whether the same as the Federal or different, and of experimental programs, local problem solving projects, etc. A list of the State's Local Emphasis Programs must be accessible to all interested parties through posting on the State's website or submission to OSHA for posting. Where State emphasis programs differ from the Federal, the assignment of appropriate IMIS identifier codes should be coordinated with the Directorate of Information Technology and the Regional Administrator.

- VI. Action. OSHA Regional Administrators, Area Directors and National Office Directors must ensure that the policies and procedures set forth in this directive are followed. Regional Administrators must also ensure that the State Consultation Program Managers and the State Plan State Designees in their Regions are apprised of the contents of this NEP and its required Area Office Outreach initiatives. Regional Administrators are to encourage Consultation Programs' involvement in this Agency-wide effort.
- VII. <u>Application</u>. This instruction applies to general industry workplaces identified pursuant to paragraph IX(B)(6), where **any** machinery and equipment that are likely to cause amputations are present (See Appendix D (not inclusive) for guidance on the types of machinery and equipment most often associated with amputations).
- VIII. <u>Background</u>. The failure to properly apply machine guarding techniques and the failure to adequately control associated energy hazards during servicing and/or maintenance activities are primary causes of amputations. OSHA has determined that CPL 03-00-002 (CPL 2-1.35), *National Emphasis Program on Amputations*, which has been in effect since March 26, 2002, should be revised to better target industries with amputation hazards. OSHA has modified its targeting methodology to identify additional industries to further reduce the number of amputations and fatalities.

The operation of machinery and equipment can be extremely dangerous, and compliance with OSHA's machine guarding and hazardous energy control standards needs to be improved. Injuries involving machinery and equipment often result in death or permanent disability, and OSHA's inspection history indicates that employee exposures to unguarded or inadequately guarded machinery and equipment, together with associated hazardous energy employee exposures during servicing and maintenance activities, occur in many workplaces. Subparts J, O, and P of 29 CFR 1910 provide for safety measures that need to be used for the safe operation, servicing and maintenance of machinery and equipment. Machinery and equipment are covered by standards such as, but not limited to, §1910.147, §1910.212, §1910.213, §1910.217, and §1910.219.

- IX. Program Procedures. This NEP includes four major activities: outreach, targeting/selection, inspection, and program approval. In order to ensure that the selected industries have time to review their own compliance, inspections are not to begin until 60 calendar days after the effective date of this directive.
 - A. Outreach. Each Regional and Area Office must develop or continue to offer outreach programs that support the purpose of this NEP to identify and reduce workplace hazards associated with all types of machinery and equipment. Outreach programs with employers, professional associations, and local unions may include meetings, training, education, mailings, speeches or other activities designed to involve employee and management stakeholders in the identification and elimination of hazards associated with machinery. The Office of Communications will provide support to the Regional and Area Offices. Employers with ten or fewer employees are to be included in the outreach effort. At the discretion of the Regional and Area Offices, outreach materials may either be mailed directly, or made available upon request, to employers, professional associations, and local unions.
 - B. <u>Targeting/Site Selection.</u> Inspections conducted under this NEP must be scheduled and conducted pursuant to the following priorities.
 - 1. The intent of the NEP is to target workplaces (See Section IX(B)(7)) with machinery and equipment that cause (or are capable of causing) amputations and workplaces where amputations have occurred, in order to reduce amputation injuries while maximizing the Agency's inspection resources. Although Section IX(B)(7) lists the target industries by SIC code, Area and Regional Offices are to ensure that they schedule and conduct enforcement activities following the guidelines set forth in CPL 02-00-051, Enforcement Exemptions and Limitations under the Appropriations Act using the most recent listing of the North American Industry Classification System (NAICS) codes found in Appendix A of CPL 02-00-051. For assistance, this (i.e., NEP on Amputations) Directive provides a comparison chart of the SIC and NAICS codes in Appendix B.
 - 2. Establishments with ten or fewer employees are <u>not</u> to be inspected <u>but are</u> to be <u>included in the outreach effort</u>.
 - 3. <u>Developing Inspection Lists.</u> Using the most recently available Dun & Bradstreet employer list prepared by the National Office, each Area and Regional Office will prepare a master list of establishments using the identified SIC codes referenced at Section IX(B)(7) of this directive.
 - 4. Area Offices will add to the master list general industry establishments where amputation injuries or fatalities related to machinery and equipment have occurred in the five years preceding the effective date of this

directive. Local evidence of amputations will be based on IMIS accident data and, if available, workers' compensation data, OSHA 200 and OSHA 300 data, NIOSH data, and other reliable sources of information (e.g., reports of amputations from hospital admissions, Emergency Medical Services, fire department, and police reports). The basis for an addition to the master list must be documented.

- 5. Establishments on the master list prepared by the National Office pursuant to Section IX(B)(3) of this directive are arranged alphabetically by company name.
- 6. Additions to the master list from the list prepared by the National Office pursuant to Section IX(B)(4) are to be arranged alphabetically and added to the bottom of the master list.

Based on local knowledge, Regional and Area offices may delete establishments that are not likely to have the targeted machinery and equipment, or firms known to be out of business, documenting the basis for such determinations. CSHOs will proceed with the programmed inspection where it has been determined that a new business is using the same plant and equipment of the previous business. Further, any establishment, other than those where amputations are known to have occurred which had a comprehensive safety inspection in the previous 24 months, will be deleted from the list.

Once the master list with additions and deletions is completed, each establishment is to be assigned a sequential number, starting at the top of the list with number one. The Random Number Table (see the most current version of OSHA instruction CPL 02-00-025) will then be applied to create the first cycle of five to fifty establishments. Subsequent cycles will be created in the same way until all establishments on the list have been assigned to a cycle. Cycles may be created all at once or as needed and need not be the same size.

Inspections may then be scheduled using the first cycle list. Establishments on the cycle list may be inspected in any order, so that Area Office resources are efficiently used. Once a cycle has begun, all establishments in the cycle will be inspected before a new cycle is begun, except for carryovers that will be allowed as provided in OSHA Instruction CPL 02-00-025, at paragraph B.l.b.(l)(e)(l).

If cycles are not prepared, establishments on the inspection list are to be inspected in the order determined by the application of the Random Number Table.

7. National Data Selection Criteria: The revised targeting methodology includes IMIS enforcement data from the following standards: §1910.147, The Control of Hazardous Energy (Lockout/Tagout), §1910.212, General Requirements for all Machines, §1910.213 Woodworking Machinery, §1910.217, Mechanical Power Presses and §1910.219, Mechanical Power-transmission Apparatus. These standards are combined with BLS Amputation Numbers and Rates (See Appendix C).

The selected SICs have High IMIS Numbers coupled with High BLS Amputation Numbers or High IMIS Numbers coupled with High BLS Amputation Rates:

- 2011 Meat Packing Plants
- 2013 Sausages and Other Prepared Meat Products
- 2015 Poultry Slaughtering and Processing
- 2022 Natural, Processed, and Imitation Cheese
- 2051 Bread and Other Bakery Products, Except Cookies and Crackers
- 2099 Food Preparations, NEC
- 2299 Textile Goods, NEC
- 2411 Logging
- 2421 Sawmills and Planing Mills, General
- 2426 Hardwood Dimension and Flooring Mills
- 2431 Millwork
- 2434 Wood Kitchen Cabinets
- 2448 Wood Pallets and Skids
- 2511 Wood Household Furniture, Except Upholstered
- 2621 Paper Mills
- 2653 Corrugated and Solid Fiber Boxes
- 2671 Packaging Paper and Plastics Film, Coated and Laminated
- 2673 Plastics, Foil, and Coated Paper Bags
- 2752 Commercial Printing, Lithographic
- 3089 Plastics Products, NEC
- 3272 Concrete Products, Except Block and Brick
- 3315 Steel Wiredrawing and Steel Nails and Spikes
- 3316 Cold-Rolled Steel Sheet, Strip, and Bars
- 3317 Steel Pipe and Tubes
- 3325 Steel Foundries, NEC
- 3423 Hand and Edge Tools, Except Machine Tools and Handsaws
- 3441 Fabricated Structural Metal
- 3443 Fabricated Plate Work (Boiler Shops)

- 3444 Sheet Metal Work
- 3446 Architectural and Ornamental Metal Work
- 3462 Iron and Steel Forgings
- 3465 Automotive Stampings
- 3469 Metal Stampings, NEC
- 3496 Miscellaneous Fabricated Wire Products
- 3499 Fabricated Metal Products, NEC
- 3544 Special Dies and Tools, Die Sets, Jigs, and Fixtures, and Industrial Molds
- 3564 Industrial and Commercial Fans and Blowers and Air Purification Equipment
- 3585 Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment
- 3599 Industrial and Commercial Machinery and Equipment, NEC
- 3714 Motor Vehicle Parts and Accessories

Note: The 40 industry SIC Codes are listed in ascending numerical order (not in the order of High IMIS violations, High BLS Amputation Numbers or High Amputation Rates).

- C. <u>Inspection Procedures</u>. Inspections initiated under this NEP will be scheduled and conducted in accordance with provisions of the FIRM, except as noted below.
 - 1. Once an inspection has been scheduled and assigned for the identified establishment, the OSHA IMIS database will be searched for the employer's citation and fatality/accident history prior to the opening conference.
 - 2. At the opening conference, the CSHO will verify with the employer whether any of machinery and equipment in Appendix D or any other machinery and equipment that could cause amputations are present in the workplace. If any machinery and equipment associated with amputations are present in the workplace, the CSHO should exercise professional judgment in conducting an inspection of the machinery and equipment with particular attention to employee exposure to nip points, pinch points, shear points, cutting actions, and other point(s) of operation. The CSHO should consider and evaluate employee exposures during any of the following:
 - Regular operation of the machine;
 - Setup/threading/preparation for regular operation of the machine;
 - Clearing jams or upset conditions;

- Making running adjustments while the machine is operating;
- Cleaning of the machine;
- Oiling or greasing of the machine or machine pans;
- Scheduled/unscheduled maintenance; and
- Locking out or tagging out.
- 3. Before proceeding with the inspection, OSHA 200 and OSHA 300 logs will be reviewed to identify recorded amputations associated with machinery and equipment.
- 4. Inspections will be scheduled beginning with the current fiscal year, and will continue until further notice or until all establishments on the list have been inspected.
- 5. Area Directors, Supervisors, Team Leaders, and CSHOs should ensure that the requirements for case development (including significant cases) are being met.
- D. <u>Program Approval.</u> Inspection programs that deviate from this NEP must be approved by the National Office, Directorate of Enforcement Programs.
- X. <u>Scheduling and Resource Allocation</u>. This is a National initiative which affects existing inspection scheduling priorities, as indicated below.
 - A. Resources. Regional Administrators must ensure that adequate resources are designated for this NEP.
 - B. <u>Planning</u>. Each Regional Administrator will report to the Director of Enforcement Programs the number of NEP inspections that are planned for each fiscal year.
 - C. Priority. Inspections conducted under this NEP have a lower priority than inspections conducted under Site Specific Targeting (SST), but have a higher priority than other programmed inspections. When possible, inspections conducted under this NEP will be combined with SST inspections and/or other programmed and unprogrammed inspections. This NEP may be combined with other existing initiatives, such as Local Emphasis Programs which identify targets on a different basis.
 - D. <u>Voluntary Protection Program Sites (VPP)</u>. This National initiative exempts participating worksites. Unless they choose otherwise, VPP sites will be removed from OSHA's programmed inspection lists of targeted sites, for the duration of approved participation in the VPP. The applicant worksite will be removed from the programmed inspection lists no more than 75 calendar days prior to the

commencement of its scheduled pre-approved onsite review. The site will remain off those lists until official denial of the application, applicant withdrawal of its application, or, if the applicant is approved to the VPP, subsequent cessation of active participation in the VPP.

E. <u>OSHA Strategic Partnership Programs (OSP)</u>. This National initiative exempts Non-Construction worksites following a comprehensive onsite enforcement inspection conducted to meet OSP verification requirements, an establishment operated by an OSP partner will be deleted from programmed inspection lists for the period of time established for deletions in then-current OSHA Site-Specific Targeting directive.

If the OSP is designed to comprehensively address a hazard covered by the Act, the Area Director (AD), with the approval of the RA, may extend the deletion for one year if the partner continues to meet the conditions of the OSP agreement and demonstrates improved performance in areas measured by the OSP.

XI. Coordination.

- A. <u>National Office</u>. This NEP will be coordinated in the Office of General Industry Enforcement in the Directorate of Enforcement Programs. Questions and comments should be directed to the National Office Coordinator.
- B. <u>Field</u>. Each Regional Administrator will name a coordinator for this National Emphasis Program.
- XII. <u>Consultation Programs</u>. The development and implementation of outreach programs for the LEPs may be a joint activity for the Area Office and Consultation Program. When appropriate, 21(d) Consultation Projects are encouraged to develop their own strategic approaches to address the need to reduce injuries and accidents related to machinery and equipment.
- XIII. <u>Training</u>. Because of the technical nature of some of these inspections and/or machinery and equipment, CSHOs who conduct inspections under this NEP, and consultation staff, must have had adequate training or experience with both general and specific machine guarding concepts and techniques as well as with hazardous energy control (lockout/tagout) program requirements.

A. The OSHA Training Institute (OTI).

The OTI provides training materials to CSHOs, consultation staff, and employers. Also, additional sessions of the OTI's mechanical power press and machine guarding courses can be made available. Technical training at the OTI can be expanded to include the use of a stop time measuring device to measure the safety

distance on a mechanical power press, should it be determined that such training is needed.

B. Additional Training.

- 1. <u>On-the-Job Training</u>. Area Directors and supervisors must ensure that inexperienced CSHOs receive on-the-job training by accompanying experienced compliance officers during these NEP inspections.
- 2. <u>Enforcement Issues</u>. Continuing guidance regarding enforcement issues will be provided by the Office of General Industry Enforcement as new issues arise.
- XIV. Federal Agencies. This instruction describes a change that affects Federal agencies. Executive Order 12196, Section 1-201, and §1960.16, maintain that Federal agencies must follow the enforcement policy and procedures contained in this Directive.
- XV. <u>Program Evaluation</u>. Area Offices will collect data relevant to the effectiveness of this NEP and submit it to the Regional Office. The Regional Office, after summarizing the information, will forward it to the National Office after the end of each fiscal year. At a minimum, the evaluation should respond to the requirements of CPL 04-00-001, Section D.

XVI. Relationship to Other Programs.

- A. <u>Unprogrammed Inspections.</u> Unprogrammed inspections will be conducted according to the FIRM (OSHA Instruction CPL 02-00-103) or other guidance documents. If the occasion for an unprogrammed (e.g., complaint, fatality) inspection arises with respect to an establishment that is also scheduled to receive a programmed inspection under the amputations plan, the two inspections may be conducted either concurrently or separately. (See also XVII.C.)
- B. Special Emphasis Programs. Some establishments may be selected for inspection under the Amputation Initiative and also under one or more other OSHA initiatives (National Emphasis (NEP) or Local Emphasis (LEP) Programs). Programs based upon particular hazards (such as silica, or lead) or on particular industries (such as logging, scrap yards, or shipyards) or the Site Specific Targeting Initiative (SST) can be run concurrently with the Amputations Initiative.

Whenever an establishment is scheduled for inspection on the Amputation Initiative and on the current cycle of an NEP/LEP plan, the inspections may be scheduled at the same time. CSHOs will apply all applicable IMIS codes to the inspection. The employer's DUNS number must also be recorded for each inspection since it is important for tracking. (See also Section XVIII.)

In the case of an establishment scheduled for inspection under both the Amputation Initiative and a NEP/LEP, an inspection limited in scope to the safety and health issues targeted by the NEP/LEP program will be conducted.

XVII. Recording and Tracking.

- A. <u>Amputation Initiative Only Inspections.</u> The OSHA-1 Forms must be marked as "programmed planned" in Item 24. In addition, the "NEP" value "AMPUTATE" should be recorded in Item 25d (the Amputations inspections are being coded under the NEP for ease of tracking).
- B. <u>Programmed and Unprogrammed Inspections.</u> All General Industry inspections must be coded as an **amputation hazard** in the IMIS by marking "**amputations**" in the Strategic Plan Activity item 25(f) on the OSHA 1, when there is potential worker exposure to an amputation hazard.
- C. <u>Amputation Initiative Combined with Unprogrammed Inspections.</u> For all unprogrammed inspections conducted in conjunction with an Amputations inspection, the OSHA-1 Forms must be marked as "unprogrammed" in Item 24 with the appropriate unprogrammed activity identified. In addition, the "NEP" value "AMPUTATE" should be recorded in Item 25d.
- D. <u>Amputation Initiative Combined with NEP or LEP Inspections.</u> For all programmed inspections such as NEPs and LEPs conducted in conjunction with an Amputations inspection, the OSHA-1 Forms must be marked as "programmed planned" in Item 24. In addition, the "NEP" value "AMPUTATE" should be recorded in Item 25d.
- E. <u>Complaint Inspections</u>. Whenever an OSHA-7 is completed by a Federal office and the applicable complaint alleges the presence of amputation hazards, complete the OSHA-7 in the usual manner, and record "AMPUTATE" in the space in item 50.
- F. <u>Fatality and Catastrophe Inspections.</u> Whenever an OSHA-36 is completed by a Federal office and the inspecting CSHO is able to identify at the site of the fatality/catastrophe the presence of amputation hazards, complete the OSHA-36 in the usual manner and record "AMPUTATE" in the space in item 36.
- G. <u>Referral Inspections.</u> Whenever an OSHA-90 is completed by a Federal office and the applicable referral case has amputation hazards as one of the subjects, complete the OSHA-90 in the usual manner and record "AMPUTATE" in the space in item 30.

H. <u>Consultation Inspections.</u> Consultations accomplished in support of this directive should input the following into the corresponding fields on the Request Form (20); the Visit Form (Form 30); and the Intervention Form (66); as applicable:

Field Name

Input

Strategic Initiative

Amputations

National Emphasis

Amputate

XVIII. <u>Dun & Bradstreet's Number</u>. The Data Universal Numbering System (DUNS) number, which is a required entry for all SST inspections, must be recorded in the appropriate field on the Establishment Detail Screen. In establishments where ownership has changed, enter the DUNS number for the new owner. If the new owner does not have a new DUNS number, enter the old DUNS number. Since the DUNS number is site-sensitive, the old DUNS number will give some useful data. The Establishment Detail Screen can be accessed by pressing F5 anywhere in any data entry form where establishment processing can be done. On the OSHA -1 inspection form, Item 8 displays the Estab Name. Once the DUNS number is entered, it will appear in Item 9b on the inspection form.

XIX. Appendices. The Appendices and a PowerPoint® presentation summarizing this NEP contain information developed to assist employers, employees, and compliance officers in the implementation, training and outreach requirements of this Program. The Area Office may use its discretion in selecting whatever materials it deems appropriate for outreach purposes. PowerPoint Presentation - Amputations Directive

APPENDIX A

Related ANSI and ASME Standards

(This appendix is not an inclusive list of all ANSI and ASME standards that are associated with hazardous machinery and equipment.)

OSHA recognizes the value of national consensus standards in terms of useful guidance for employers and employees attempting to comply with specific OSHA standards.

OSHA's enforcement policy provides that a violation may be *de minimis* if an employer complies with a proposed standard or amendment or a consensus standard rather than with the standard in effect at the time of the inspection, <u>and</u> the employer's action clearly provides equal or greater employee protection. See OSHA Instruction CPL 02-00-103, *Field Inspection Reference Manual*, Chapter III, Paragraph C(2)(g), September 26, 1994. In applying this principle, OSHA takes heed of its rulemaking findings.

- 1. ANSI B11.1- Mechanical Power Presses
- 2. ANSI B11.2- Hydraulic Power Presses
- 3. ANSI B11.3- Power Press Brakes
- 4. ANSI B11.4- Shears
- 5. ANSI B11.5- Ironworkers
- 6. ANSI B11.6- Lathes
- 7. ANSI B11.7- Cold Headers and Cold Formers
- 5. ANSI B11.8- Drilling, Milling, and Boring Machines
- 9. ANSI B11.9- Grinding Machinery
- 10. ANSI B11.10- Metal Sawing Machines
- 11. ANSI B11.11- Gear Cutting Machines
- 12. ANSI B11.12- Roll-Forming and Roll-Bending Machines
- 13. ANSI B11.14- Coil-Slitting Machines
- 14. ANSI B11.15- Pipe, Tube, and Shape Bending Machines
- 15. ANSI B11.16- Metal Powder Compacting Presses
- 16. ANSI B11.17- Horizontal Hydraulic Extrusion Presses
- 17. ANSI B11.18- Machinery and Machine Systems for Processing Strip, Sheet, or Plate From Coiled Configuration
- 18. ANSI B11.19- Safeguarding When Referenced by the Other B11 Machine Tool Safety Standards
- 19. ANSI B5.37- External Cylindrical Grinding Machines (Centerless)
- 20. ANSI B5.42- External Cylindrical Grinding Machines (Universal)
- 21. ANSI B65.1- Printing Press Systems
- 22. ANSI B65.2- Safety Standard Binding and Finishing Systems
- 23. ANSI B65.3- Safety Standard for Guillotine Paper Cutters
- 24. ANSI B7.1- Use, Care, and Protection of Abrasive Wheels
- 25. ANSI B151.5- Plastic Film and Sheet Winding Equipment

- 26. ANSI B151.20- Plastic Sheet Production Machinery
- 27. ANSI B155.1- Packaging Machinery and Packaging-Related Converting Machinery
- 28. ANSI B177.1- Three Roller Printing Ink Mills
- 29. ANSI O1.1- Woodworking Machinery
- 30. ANSI Z244.1- Control of Hazardous Energy Lockout/Tagout and Alternative Methods
- 31. ASME B5.52M- Mechanical Power Presses, General Purpose Single Point
- 32. ASME B15.1- Mechanical Power Transmission Apparatus
- 33. ASME B15.1A- Addenda to B15.1
- 34. ASME BL5.1B- Addenda to B15.1
- 35. ASME B20.1- Conveyors and Related Equipment, with Interpretations A and B
- 36. ASME B20.1A and B20.1B- Addenda to B20.1
- 37. ASME/CEMA 350- Screw Conveyors
- 38. ASME/CEMA 401- Unit Handling Conveyors Roller Conveyors Non-Powered
- 39. ASME/CEMA 402- Unit Handling Conveyors Belt Conveyors
- 40. ASME/CEMA 403- Unit Handling Conveyors Belt Driven Live Roller Conveyors
- 41. ASME/CEMA 404- Unit Handling Conveyors Chain Driven Live Roller Conveyors
- 42. ASME/CEMA 405- Packaging Handling Conveyors Slant Conveyors

APPENDIX B

This appendix is an excerpt of a cross-comparison chart for the Standard Industrial Classification (SIC) codes and the North American Industry Classification System (NAICS) which is intended to assist enforcement personnel in identifying related industries and the new classification system. The source of this excerpt was NAICS United States, 1997, Appendix B.

| | | SIC and NAICS Note: pt - Part of; NEC - No | Elsewh | ere Classified | |
|---------|----|--|------------------|---|--|
| | P | | NAICS | NAICS TEXT | |
| 201 | | Meat Packing Plants | 31161 | 1 Animal (except Poultry) Slaughtering (pt) | |
| 201 | | Sausages and Other Prepared Meat Products | | | |
| 201 | ľ | | 31161 | Rendering and Meat Byproduct Processing (pt) | |
| | | Except Lard Made From Purchased Material | 311612 | Meat Processed from Carcasses (pt) | |
| 201 | | Poultry Slaughtering and Processing | | · | |
| - | | Poultry Processing | 311615 | Poultry Processing | |
| | Ţ | Egg Processing | 311999 | All Other Miscellaneous Food Manufacturing (pt) | |
| 2022 | | Natural, Processed, and Imitation Cheese | 311513 | Cheese Manufacturing | |
| 2051 | | Bread and Other Bakery Products, Except Cookies and Crackers | 311812 | Commercial Bakeries (pt) | |
| 2099 | | Food Preparations, NEC | | | |
| <u></u> | L | Reducing Maple Sap to Maple Syrup | 111998 | All Other Miscellaneous Crop Farming (pt) | |
| · . | ľ | Marshmallow Crème | 31134 | Nonchocolate Confectionery Manufacturing (pt) | |
| | Ĭ | Peanut Butter | 311911 | Roasted Nuts and Peanut Butter Manufacturing (pt) | |
| 2099 | | Potatoes, Dried and Packaged with Other Ingredients Made in Dehydrated Plants, and Bouillon | | Dried and Dehydrated Food Manufacturing (pt) | |
| 2099 | | Perishable Prepared Food | 311991 | Perishable Prepared Food Manufacturing | |
| 2099 | | Rice, Uncooked and Packaged with Other Ingredients Made in Rice Milling | 311212 | Rice Milling (pt) | |
| | | Tortillas | 31183 | Tortilla Manufacturing | |
| 2099 | | Dry Pasta Packaged with Other Ingredients Made in Dry Pasta Plants | 311823 | Dry Pasta Manufacturing (pt) | |
| 2099 | | Tea | | Coffee and Tea Manufacturing (pt) | |
| | | Vinegar, Prepared Dips Except Dairy and Cider | manana manana | Mayonnaise, Dressing, and Other Prepared Sauce Manufacturing (pt) | |
| 2099 | pt | Spices and Extracts | | Spice and Extract Manufacturing (pt) | |

| | | SIC and NAICS Note: pt — Part of, NEC = Not E | lsewher | e Classified | |
|------|--------|---|---------------|---|--|
| SIC | ΡT | | NAIGS | NAICS TEXT | |
| 2099 | | | 311999 | All Other Miscellaneous Food Manufacturing (pt) | |
| 2299 | | Textile Goods, NEC | | | |
| 2299 | pt | Broadwoven Fabric of Jute, Linen, Hemp, and Ramie and Handwoven | | Broadwoven Fabric Mills (pt) | |
| | pt | Nonwoven Felt | A | Nonwoven Fabric Mills (pt) | |
| | pt | Finishing Thread and Yarn of Flax, Hemp, Jute, Linen, and Ramie | 313312 | Textile and Fabric Finishing (except Broadwoven Fabrics) Mills (pt) | |
| | pt | Narrow Woven Fabric of Jute, Linen, Hemp, and Ramie | 313221 | Narrow Fabric Mills (pt) | |
| | pt | Thread of Hemp, Linen, and Ramie | 313113 | Thread Mills (pt) | |
| | pt | | 313111 | Yarn Spinning Mills (pt) | |
| | pt | Recovery and Processing of Fibers and Waste | 314999 | All Other Miscellaneous Textile Product Mills (pt) | |
| 2411 | | Logging | 11331 | Logging | |
| 2421 | | Sawmills and Planing Mills, General | | | |
| 2421 | pt | Lumber Manufacturing from Purchased Lumber, Softwood Cut Stock, Wood Lath and Planing Mill Products | 321912 | Cut Stock, Resawing Lumber, and Planing (pt) | |
| 2421 | pt | Sawmills | 321113 | Sawmills (pt) | |
| 2421 | pt | Softwood Flooring | | Other Millwork (including Flooring) (pt) | |
| 2421 | pt | Kiln Drying | 321999 | All Other Miscellaneous Wood Product Manufacturing (pt) | |
| 2426 | | Hardwood Dimension and Flooring Mills | | | |
| 2426 | pt | Hardwood Flooring | 321918 | Other Millwork (including Flooring) (pt) | |
| 2426 | pt | Wood Furniture Frames | | Showcase, Partition, Shelving, and Locker Manufacturing (pt) | |
| 2426 | pt | Hardwood Dimension Lumber Made from Logs and Bolts | A | Sawmills (pt) | |
| 2426 | pt | Other Hardwood Dimension Except, Flooring | 321912 | Cut Stock, Resawing Lumber, and Planing (pt) | |
| 2431 | MONATE | Millwork | | | |
| 2431 | pt | Wood Windows and Doors | | Wood Window and Door Manufacturing | |
| 2431 | pt | Except Wood Windows and Doors | Haring Haring | Other Millwork (including Flooring) (pt) | |
| 2434 | | Wood Kitchen Cabinets | TI 177 | Wood Kitchen Cabinet and Countertop Manufacturing (pt) | |
| 2448 | | Wood Pallets and Skids | | Wood Container and Pallet Manufacturing (pt) | |

| 200 | | SIC and NAICS Note: pt = Part of; NEC = Not | Elsewho | ere Classified |
|------|-------------------------|---|------------------|--|
| SIC | - | | NAICS | NAICS TEXT. |
| 251 | 1 | Wood Household Furniture, Except Upholstered | | |
| 2511 | | | | 5 Showcase, Partition, Shelving, and Locker Manufacturing (pt) |
| | | Except Wood Box Spring Frames | 33712 | Wood Household Furniture (except Upholstered) Manufacturing (pt) |
| 2621 | | Paper Mills | | |
| 2621 | Ĺ | | 32212 | Paper (except Newsprint) Mills (pt) |
| 2621 | pt | Newsprint Mills | 322122 | 2 Newsprint Mills (pt) |
| 2653 | | Corrugated and Solid Fiber Boxes | 322211 | Corrugated and Solid Fiber Box Manufacturing (pt) |
| 2671 | | Packaging Paper and Plastics Film, Coated and Laminated | Министрон | |
| | | Single-Web Paper, Paper Multiweb Laminated Rolls and Sheets for Packaging Uses | 322221 | Coated and Laminated Packaging Paper and Plastic Film Manufacturing |
| | | Plastics Packaging Film and Sheet | 326112 | Unsupported Plastics Packaging Film and Sheet Manufacturing |
| 2673 | | Plastics, Foil, and Coated Paper Bags | | |
| | | Except All Plastics | 322223 | Plastics, Foil, and Coated Paper Bag Manufacturing |
| 2673 | pt | Plastics Bags | 326111 | Unsupported Plastics Bag |
| 2752 | | Commercial Printing, Lithographic | | |
| | Tomario de la constanta | Quick Printing | 323114 | Quick Printing (pt) |
| 2752 | pt | Except Quick Printing | 323110 | Commercial Lithographic Printing (pt) |
| 3089 | | Plastics Products, NEC | | |
| | | Pipe Fittings | | Plastics Pipe and Pipe Fitting Manufacturing (pt) |
| 3089 | pt | Plastics Sausage Casings | 326121 | Unsupported Plastics Profile Shape Manufacturing (pt) |
| 3089 | pt | Finished Plastics Furniture Parts | | Showcase, Partition, Shelving, and Locker Manufacturing (pt) |
| 3089 | pt | Other | 1 : | All Other Plastics Product Manufacturing (pt) |
| 3272 | | Concrete Products, Except Block and Brick | | |
| 3272 | pt | Dry Mixture Concrete | 200 | All Other Miscellaneous Nonmetallic Mineral Product Manufacturing (pt) |
| 3272 | pt | Concrete Pipes | 327332 | Concrete Pipe Manufacturing |

| | | SIC and NAICS Note. pt - Part of, NEC - Not E | sewher | e Classified. |
|------------------------|---------|--|----------------|---|
| SIC | PΤ | | NAIGS | NAICS TEXT |
| - CHINESOTTICE CONTROL | | Other Concrete Products | 32739 | Other Concrete Product Manufacturing |
| 3315 | uxamaad | Steel Wiredrawing and Steel Nails and Spikes | | |
| 3315 | pt | Steel Wire Drawing | | Steel Wire Drawing |
| 3315 | | 1 | | Other Fabricated Wire Product Manufacturing (pt) |
| 3316 | | Cold-Rolled Steel Sheet, Strip, and Bars | | Rolled Steel Shape Manufacturing (pt) |
| 3317 | | Steel Pipe and Tubes | | Iron and Steel Pipe and Tube Manufacturing from Purchased Steel |
| 3325 | | Steel Foundries, NEC | | Steel Foundries (except Investment) |
| 3423 | | Hand and Edge tools, Except Machine Tools and Handsaws | | Hand and Edge Tool Manufacturing (pt) |
| 3441 | | Fabricated Structural Metal | | Fabricated Structural Metal Manufacturing (pt) |
| 3443 | , | Fabricated Plate Work (Boiler Shops) | | |
| 3443 | pt | Fabricated Plate Work and Metal Weldments | 332313 | Plate Work Manufacturing |
| | | Power Boilers and Heat Exchanges | 33241 | Power Boiler and Heat Exchanger Manufacturing (pt) |
| 3443 | pt | Heavy Gauge Tanks | 33242 | Metal Tank (Heavy Gauge) Manufacturing |
| 3443 | pt | Metal Cooling Towers | 333414 | Heating Equipment (except Warm Air Furnaces) Manufacturing (pt) |
| 3444 | | Sheet Metal Work | | |
| 3444 | pt | Ducts, Flumes, Flooring. Siding, Dampers, etc. | | Sheet Metal Work Manufacturing |
| 3444 | pt | Metal Bins and Vats | | Other Metal Container Manufacturing (pt) |
| 3444 | pt | Cooling Towers | | Heating Equipment (except Warm Air Furnaces) Manufacturing (pt) |
| 3446 | | Architectural and Ornamental Metal Work | סחקוטענטאוונחק | Ornamental and Architectural Metal Work Manufacturing (pt) |
| 3462 | | Iron and Steel Forgings | 332111 | Iron and Steel Forging |
| 3465 | | Automotive Stamping | 33637 | Motor Vehicle Metal Stamping |
| 3469 | | Metal Stamping, NEC | | |
| 3469 | pt | Metal Stamping, NEC (Except Kitchen Utensils, Pots and Pans for Cooking and Coins) | 332116 | Metal Stamping |

| | | SIC and NAICS Note: pt - Part of, NEC - Not | | | |
|------|----|--|------------------|--|--|
| SIC | | | NAIGS | | |
| 3469 | pt | Kitchen Utensils and Pots and Pans for Cooking | . 332214 | Kitchen Utensil, Pot, and Pan Manufacturing | |
| 3496 | | Miscellaneous Fabricated Wire Products | | | |
| 3496 | pt | Grocery Carts | 333924 | Industrial Truck, Tractor, Trailer, and Stacker Machinery Manufacturing (pt) | |
| 3496 | pt | Except Grocery Carts | 332618 | Other Fabricated Wire Product Manufacturing (pt) | |
| 3499 | | Fabricated Metal Products, NEC | | | |
| 3499 | pt | Metal Furniture Frames | 337215 | Showcase, Partition, Shelving, and Locker Manufacturing (pt) | |
| 3499 | pt | Metal Motor Vehicle Seat Frames | 33636 | Motor Vehicle Seating and Interior Trim Manufacturing (pt) | |
| 3499 | pt | Powder Metallurgy | 332117 | Powder Metallurgy Part Manufacturing | |
| 3499 | pt | Metal Boxes | 332439 | Other Metal Container Manufacturing (pt) | |
| 3499 | pt | Safe and Vault Locks | 33251 | Hardware Manufacturing (pt) | |
| 3499 | pt | Metal Aerosol Valves | 332919 | Other Metal Valve and Pipe Fitting Manufacturing (pt) | |
| 3499 | pt | Other Metal Products | 332999 | All Other Miscellaneous Fabricated Metal Product Manufacturing (pt) | |
| 3544 | | Special Dies and Tools, Die Sets, Jigs and Fixtures, and Industrial Molds | | | |
| 3544 | pt | Except Industrial Molds | | Special Die and Tool, Die Set, Jig, and Fixture Manufacturing | |
| 3544 | pt | Industrial Molds | 333511 | Industrial Mold Manufacturing | |
| 3564 | | Industrial and Commercial Fans and Blowers, and Air Purification Equipment | | | |
| 3564 | pt | Air Purification Equipment | | Air Purification Equipment Manufacturing | |
| 3564 | pt | Fans and Blowers | | Industrial and Commercial Fan and Blower Manufacturing | |
| 3585 | | Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment | TOTAL CONTROL OF | | |
| 3585 | pt | Motor Vehicle Air-Conditioning | | Motor Vehicle Air- Conditioning Manufacturing | |

| | | SIC and NAICS Note: pt – Part of; NEC – Not E | lsewher | e Classified |
|------|----------|--|---------|---|
| SIC | РΤ | SIC TEXT | | NAICS TEXT |
| 3585 | pt | Except Motor Vehicle Air-Conditioning | 333415 | Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing |
| 3599 | | Industrial and Commercial Machinery and Equipment, NEC | | |
| 3599 | pt | Gasoline, Oil and Intake Filters for Internal Combustion Engines, Except Motor Vehicle | | All Other Motor Vehicle Part Manufacturing (pt) |
| 3599 | pt | Flexible Metal Hose | 332999 | All Other Miscellaneous Fabricated Metal Product Manufacturing (pt) |
| 3599 | pt | Carnival Amusement Park Equipment | 333319 | Other Commercial and Service Industry Machinery Manufacturing (pt) |
| 3599 | pt | Machine Shops | # | Machine Shops |
| | | Other Industrial and Commercial Machinery and Equipment | 333999 | All Other Miscellaneous General Purpose Machinery Manufacturing (pt) |
| 3714 | <u> </u> | Motor Vehicle Parts and Accessories | | |
| | pt | Dump-Truck Lifting Mechanisms and Fifth Wheels | mana | Motor Vehicle Body Manufacturing (pt) |
| 3714 | pt | Gasoline Engines Including Rebuilt and Engine Parts Including Rebuilt for Motor Vehicles | | Gasoline Engine and Engine Parts Manufacturing |
| 3714 | pt | Wiring Harness Sets, Other than Ignition; Block Heaters and Battery Heaters; Instrument Board Assemblies; Permanent Defroster; Windshield Washer-Wiper Mechanisms; Cruise Control Mechanisms; and Other Electrical Equipment for Internal Combustion Engines | 336322 | Other Motor Vehicle Electrical and Electronic Equipment Manufacturing (pt) |
| 3714 | pt | Steering and Suspension Parts | 33633 | Motor Vehicle Steering and Suspension Components (except Spring) Manufacturing |
| 3714 | pt | Brake and Brake Systems, Including Assemblies | 33634 | Motor Vehicle Brake System Manufacturing (pt) |
| 3714 | pt | Transmissions and Power Train Parts, Including Rebuilding | 33635 | Motor Vehicle Transmission and Power Train Parts Manufacturing |
| 3714 | pt | Other Motor Vehicle Parts | 336399 | All Other Motor Vehicle Parts Manufacturing (pt) |

APPENDIX C

AMPUTATIONS TARGETING METHODOLOGY

NATIONAL DATA:

Selection Process for Industries with Significant Inspection Histories (High IMIS¹ Numbers:)

- 1. OSHA selected five standards (29 CFR 1910.147, .212, .213, .217, and .219) that are generally recognized as being related to amputation hazards.
- 2. OSHA IMIS data covering fiscal years 1999-2005 identified those industries with 40 or more federal OSHA inspections with one or more violations of the standards listed in #1 above.
- 3. OSHA limited the range to the Standard Industrial Classification Manual, Division D., Manufacturing, Major Group 20 through Major Group 39. This range encompasses all manufacturing operations and addresses amputation issues.
- 4. The process yielded 123 SICs.

Selection Process for Industries with High BLS Rates:

- 1. OSHA used the most recent four years of BLS Data (Calendar year 1999, 2000, 2001, and 2002.)² on incidence rates for nonfatal occupational injuries and illnesses involving days away from work per 10,000 full-time workers.
- 2. OSHA limited the range to the Standard Industrial Classification Manual, Division D., Manufacturing, Major Group 20 through Major Group 39.
- 3. OSHA selected SICs with BLS incidence rates of 10.0 or greater for amputations for any year.
- 4. The process yielded 38 SICs.

BLS Data Selection Process for Industries with High BLS Numbers:

- 1. OSHA used the most recent four years of BLS Data (Calendar year 1999, 2000, 2001, and 2002.)³ on the number of amputations.
- 2. OSHA limited the range to the Standard Industrial Classification Manual, Division D., Manufacturing, Major Group 20 through Major Group 39.
- 3. OSHA selected SICs with BLS numbers of 50 or more amputations for any year.
- 4. The process yielded 29 SICs.

¹ IMIS- Integrated Management Information System. OSHA's database for enforcement data.

^{2 2003} and 2004 BLS data was not used as it had data sorted by NAICS.

³ Ibid.

OSHA then selected the industries that had High IMIS Numbers coupled with High BLS Rates or High IMIS Numbers coupled with High BLS Numbers.

- The first category contains SICs that have High IMIS Numbers and High BLS Rates. The total number of SICs in this category is 25.
- The second category contains SICs that have High IMIS Numbers and High BLS Numbers. The total number of SICs in this category is 29.
- After eliminating the overlap⁴ between the two categories, the final total is 40 SIC codes.

The 40 SICs comprise OSHA's list of industries that will be a part of the National Emphasis Program for Amputations.

⁴ The overlap consisted of 14 of the 40 SICs which had High IMIS Numbers, High BLS Rates, and High BLS Numbers.

APPENDIX D

(To be used for guidance/not inclusive)

| 1999-2002 (Table R-25*) Combined Amputation Sources |
|---|
| Sources of Amputations: Machinery and Equipment |
| Benders, Rollers and Shapers |
| Press Brakes (All Types) |
| Casting Machinery |
| Conveyors - Belt, Chain, Live Roller, and Auger Screw Conveyors |
| Drills – Stationary |
| Extruding Machinery |
| Grinders, Abraders, and Meat Grinders |
| Plastic Injection Molding Machinery |
| Milling Machines |
| Mixers, Blenders, Whippers, Slicers, and Food Beverage Processing Equipment |
| Packing, Wrapping, Bundling Machinery |
| Presses (Mechanical, Hydraulic, and Pneumatic) |
| Printing Presses |
| Sawing Machinery - (Band, Table, Radial Arm Saws) |
| Shears (All Types) |

^{*}Bureau of Labor Statistics (BLS) Table R25. Number of Nonfatal Occupational Injuries and Illnesses Involving Days Away from Work by Source of Injury or Illness and Selected Natures of Injury or Illness

INDEX

| Amputations | | 2, 10 |
|-----------------------------------|---|-------|
| = | | 2 |
| BLS | , | 2 |
| Bureau of Labor Statistics | | |
| CPL 03-00-002 | | 2 |
| | | 1 |
| Field Inspection Reference Manual | | 2 |
| IMIS | | _ |
| Purpose | | . 2 |
| - | | 1 |
| State Plan | | - |